Algebra 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Transformations & Graphing Radical Functions Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_

**State the parent function for each function below. Then describe the transformation(s) for each function.**

1.)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parent Function:** | **Vertical Reflection:** | **Horizontal Reflection:** | **Horizontal Shift: Direction? How many?** | **Vertical Shift: Direction? How many?** |
|  |  |  |  |  |

2.) 

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parent Function:** | **Vertical Reflection:** | **Horizontal Reflection:** | **Horizontal Shift: Direction? How many?** | **Vertical Shift: Direction? How many?** |
|  |  |  |  |  |

3.) 

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parent Function:** | **Vertical Reflection:** | **Horizontal Reflection:** | **Horizontal Shift: Direction? How many?** | **Vertical Shift: Direction? How many?** |
|  |  |  |  |  |

4.) 

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parent Function:** | **Vertical Reflection:** | **Horizontal Reflection:** | **Horizontal Shift: Direction? How many?** | **Vertical Shift: Direction? How many?** |
|  |  |  |  |  |

**Graph using transformations. Include the parent function on your graph.**

|  |
| --- |
| 5.) Graph # 1 |
| 6.)Graph # 4 |